



PATENT
Our Docket: P-LA 1245

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
Border and Ruoslahti)	Group Art Unit: 1644
)	
Serial No: 08/349,479)	Examiner: P. Gambel
)	
Filed: December 2, 1994)	
)	
For: INHIBITING TRANSFORMING)	
GROWTH FACTOR β TO)	
PREVENT ACCUMULATION OF)	
EXTRACELLULAR MATRIX)	

Commissioner for Patents
Washington, D.C. 20231

DECLARATION UNDER 37 C.F.R. § 1.132

I, Lucia L. Languino, hereby declare as follows:

1. I am currently an Associate Professor of Pathology at Yale University School of Medicine. I have been a faculty member at Yale University School of Medicine since 1994.

2. I received a doctorate in Pharmacology from the Negri Institute of Pharmacological Research, Milan, Italy in 1984. I was a post-doctoral fellow in the laboratory of Erkki Ruoslahti, M.D., Ph.D., at The Burnham Institute, known at that time as the La Jolla Cancer Research Foundation, from 1987 to 1991.



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3. I understand that the claims pending in the above-identified application stand rejected, in part, based on the assertion that the Applicants have allegedly not shown conception prior to December 22, 1988, of the use of anti-TGF- β antibodies to decrease the deleterious TGF- β -induced production and accumulation of extracellular matrix (ECM) associated with a pathology or condition.

4. I was a postdoctoral fellow in Dr. Ruoslahti's laboratory during the time period Dr. Border conducted research related to the above-identified patent application in Dr. Ruoslahti's laboratory. Prior to December 22, 1988, I was asked by Drs. Border and Ruoslahti to assist in the preparation of anti-TGF- β antibodies against amino acids 78 to 109 of TGF- β for a stated goal of using anti-TGF- β antibodies to inhibit TGF- β in order to decrease the deleterious TGF- β -induced production and accumulation of extracellular matrix (ECM) associated with a disease, including kidney disease.

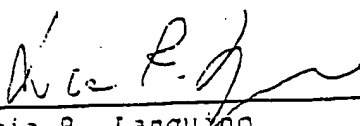
5. As evidence of my communications, prior to December 22, 1988, with Drs. Border and Ruoslahti, attached to this Declaration as Exhibit A, is a La Jolla Cancer Research Foundation animal usage form related to the project entitled "Anti-human TGF- β Cyclized Peptide," which lists Dr. Border and myself as the investigators. The date of Exhibit A, which is prior to December 22, 1988, has been redacted. The animal usage form was submitted for the goal of generating an inhibitory antibody that would inhibit TGF- β binding to cells and, therefore, inhibit TGF- β activities, including ECM production.

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6. Therefore, I can corroborate, based on personal observations and communications as described in the foregoing paragraphs, that Drs. Border and Ruoslahti prior to December 22, 1988, conceived of using anti-TGF- β antibodies to inhibit TGF- β in order to decrease the deleterious TGF- β -induced production and accumulation of extracellular matrix (ECM) associated with a disease, including kidney disease.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

3/12/01
Date


Lucia R. Languino



LA JOLLA CANCER RESEARCH FOUNDATION
ANIMAL USAGE FORM

AUF 1473

PLEASE TYPE OR PRINT

1. PRINCIPAL INVESTIGATOR	OFFICE PHONE	HOME/EMERGENCY PHONE
WAYNE A. BORDER, M.D.	226	(714) 770-4602
2. OTHER INVESTIGATOR		
LUCIA LANGUINO, Ph.D.	230	519-0609
3. SENIOR TECHNICIAN		

4. PROJECT TITLE
ANTI-HUMAN TGF β CYCLIZED PEPTIDE

5. GRANT NUMBER, IF ANY	NEW	RENEWAL	PILOT	PROJECT NUMBER
250200	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

6. START DATE	END DATE	MICE	RATS	RABBITS	GP	OTHER (SPECIFY)
				2		

7. PROJECT GOAL(S) (SEE INSTRUCTIONS)
To produce quantities of anti-human TGF β cyclized peptide for use in kidney disease research.

8. RATIONALE (SEE INSTRUCTIONS)
Rabbits produce high quality antiserum which can be used for identification of human TGF β in tissue samples and in vitro assays to study progression of kidney injury.

9. DESCRIBE USE OF ANIMALS (SEE INSTRUCTIONS)
All injections/bleedings to be performed by animal care facility personnel.
1. Pre-bleeding 20 ml from ear vein.
2. Inject 500 TGF β cyclized purified peptide (0.5 ml antigen in PBS + 0.5 ml FCA) subcutaneously in 2 sites.
3. After one month, boost with 125 μ g antigen (0.25 ml antigen in PBS + 0.25 ml incomplete adjuvant) subcutaneously, 2 sites.
4. After 10 days, bleed 50 ml from alternating ear veins 3 times.
5. Repeat steps 3-4 at 4-6 week intervals.

10. PAIN LEVEL ☒ A ☐ B ☐ C

IF B OR C READ INSTRUCTIONS, PROVIDE DESCRIPTION OR JUSTIFICATION HERE

CONFIDENTIAL

11. EUTHANASIA (SEE INSTRUCTIONS)

DURING PROJECT	METHOD OR TECHNIQUE	CO.	CERV. DISLOC.	RETAIN CARCASSES
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	YES <input type="checkbox"/>
END OF PROJECT		IND.	OTHER (SPECIFY)	NO <input checked="" type="checkbox"/>

12. SIGNATURES

PI	WAB	DATE	U2 05334	DATE
AP		DATE		
MGR		DATE		